

### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

### NOTICE OF ALLOWANCE AND FEE(S) DUE

009629

7590

07/24/2002

MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004 EXAMINER

LACOURCIERE, KAREN A

ART UNIT CLASS-SUBCLASS

1635 435-006000

DATE MAILED: 07/24/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/215,257	12/18/1998	ANDREW Z. FIRE	PM256628	7602

TITLE OF INVENTION: GENETIC INHIBITION BY DOUBLE-STRANDED RNA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	10/24/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

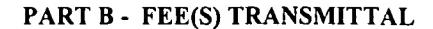
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231

<u>Fax</u> (703)746-4000

appropriate. All further co indicated unless corrected maintenance fee notificatio	below or directed otherwis	Patent, advance orders e in Block 1, by (a) spe	and notification of ecifying a new co	of maintenance fee respondence addr	equired). Blocks 1 through 4 ses will be mailed to the current ess; and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENT 009629 7	See ADDRESS (Note: Legibly mark- 590 07/24/2002	_	Block 1)	Fee(s) Transmit accompanying pa	te of mailing can only be used for tal. This certificate cannot apers. Each additional paper, must have its own certificate of a	be used for any other such as an assignment or
	IS & BOCKIUS LL ANIA AVENUE NW DC 20004			I hereby certify United States Pos envelope address	Certificate of Mailing or Tran that this Fee(s) Transmittal is stal Service with sufficient postated to the Box Issue Fee address USPTO, on the date indicated by	smission being deposited with the lage for first class mail in an sabove, or being facsimile
					-	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/215,257	12/18/1998		ANDREW Z. FIRE	<u> </u>	PM256628	7602
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PURI I	CATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	1 .052.	\$300	\$940	10/24/2002
						10/2 1/2002
EXAM	<u> </u>	ART UNIT	CLASS-SUBCL			
LACOURCIER	E, KAREN A	1635	435-00600	)	-	
CFR 1.363).  Change of correspond Address form PTO/SB/I	nce address or indication of lence address (or Change of 22) attached. ion (or "Fee Address" Indic or more recent) attached. U	Correspondence ation form	the names of up or agents OR, single firm (ha attorney or age	on the patent from to 3 registered palternatively, (2) wing as a member attorneys or agence will be printed.	atent attorneys the name of a er a registered es of up to 2  2	
3. ASSIGNEE NAME ANI	D RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print of	type)	· · · · · · · · · · · · · · · · · · ·	
	an assignee is identified be I to the USPTO or is being s	low, no assignee data wisubmitted under separate		atent. Inclusion of n of this form is N	assignce data is only appropria OT a substitute for filing an assi COUNTRY)	te when an assignment has gnment.
Please check the appropriat  4a. The following fee(s) are	e assignee category or categ	·	d on the patent)  yment of Fee(s):	🗖 individual	☐ corporation or other private g	group entity 🚨 government
☐ Issue Fee	cherosed.		neck in the amount	of the fee(s) is end	closed.	
☐ Publication Fee			ment by credit card			
☐ Advance Order - # of 0	Copies	☐ The	Commissioner is h	ereby authorized b	by charge the required fee(s), or(enclose an extra copy of this	credit any overpayment, to
Commissioner for Patents i	s requested to apply the Issu	7 24 300 3000 2000		1.3	isly paid issue fee to the applica	
(Authorized Signature)		(Date)		<del></del>		
NOTE; The Issue Fee ar other than the applicant; interest as shown by the r	nd Publication Fee (if requ a registered attorney or a ecords of the United States	ired) will not be accept gent; or the assignee o Patent and Trademark O	ted from anyone or other party in office.			

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/215,257	12/18/1998	ANDREW Z. FIRE	PM256628	7602
009629	7590 07/24/2002		EXAMINE	ER
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			LACOURCIERE,	KAREN A
WASHINGTON			ART UNIT	PAPER NUMBER
			1635	
			DATE MAILED: 07/24/2002	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/215,257	<del>"</del>	12/18/1998	ANDREW Z. FIRE	PM256628	7602
009629	7590	07/24/2002		EXAMIN	ER
,		BOCKIUS LLP		LACOURCIERE	, KAREN A
IIII PENNSYI WASHINGTOI	_	·		ART UNIT	PAPER NUMBER
UNITED STAT	ES			1635	-
				DATE MAILED: 07/24/2002	

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)	
	09/215,257	FIRE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Koron Looguraiara	4625	
	Karen Lacourciere	1635	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLC 85) or other appropriate IT RIGHTS. This applica	SED in this application. If not communication will be mailed i	included n due course. THIS
1.  This communication is responsive to <u>6-27-02</u> .			
2.  The allowed claim(s) is/are <u>1-11,22 and 26-35</u> .			
3. The drawings filed on are accepted by the Example 2.	miner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the:	y under 35 U.S.C. § 119(a	n)-(d) or (f).	
1.   Certified copies of the priority documents	have been received.		
2.  Certified copies of the priority documents	have been received in Ap	plication No	
3. Copies of the certified copies of the priorit International Bureau (PCT Rule 17.2(a)		eceived in this national stage a	pplication from the
* Certified copies not received:	77 ·		
5. Acknowledgment is made of a claim for domestic prior	rity under 35 U.S.C. & 119	(e) (to a provisional application	ı).
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic prior	•		
Applicant has THREE MONTHS FROM THE "MAILING DAT below. Failure to timely comply will result in ABANDONMEN"			<del>-</del>
7. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which gives			NT or NOTICE OF
9 M CORRECTED DRAVAUNCE much be authoritied			
<ul><li>8.</li></ul>	tenereon's Patent Drawing	Poviow ( PTO 948) attached	·
1) Mereto or 2) to Paper No. 29.	sperson's ratent brawing	The view (1 10-5-6) attached	,
(b) including changes required by the proposed draw	ving correction filed	which has been approved b	v the Evaminer
(c) including changes required by the attached Exam	niner's Amendment / Com	ment of in the Office action of	Paper No
Identifying indicia such as the application number (see 37 C of each sheet. The drawings should be filed as a separate p	• • •	•	_ ,
9. DEPOSIT OF and/or INFORMATION about the datached Examiner's comment regarding REQUIREMENT FOR	•		tted. Note the
Attachment(s)			
1 Notice of References Cited (PTO-892)	2⊠ N	lotice of Informal Patent Applic	ation (PTO-152)
3⊠ Notice of Draftperson's Patent Drawing Review (PTO-94	I8) 4⊠ Iı	nterview Summary (PTO-413),	Paper No. <u>28</u> .
5 Information Disclosure Statements (PTO-1449), Paper N		xaminer's Amendment/Comme	i
7 Examiner's Comment Regarding Requirement for Depos of Biological Material	sit 8⊠ E 9□ C	Examiner's Statement of Reaso Other	ns for Allowance
J. 2.J. J.	٠ <u> </u>		
U.S. Patent and Trademark Office PTO-37 (Rev. 04-01)	Notice of Allowability		Part of Paper No. 29
			کے

FILE COPY

Application/Control Number: 09/215,257

Art Unit: 1635

Page 2

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bonnie Weiss McLeod on 06-27-2002.

The application has been amended as follows:

Claims 15, 16, 21, 39 and 47-51 have been canceled.

In claim 1, the word "sequences" has been deleted and the word -- strands -- has been inserted after the phrase "the second ribonucleotide" in the seventh line of the claim.

In claim 1, the word "sequences" has been deleted and the word — strand — has been inserted after the word "complementary" in line 8 of the claim.

Claims 10 has been amended to read:

Application/Control Number: 09/215,257

Art Unit: 1635

-- 10. (Amended) The method of claim 1 in which the first <u>ribonucleotide</u> sequence comprises at least 25 bases which correspond to the target gene and the second ribonucleotide sequence[s] comprises at least 25 bases which [correspond to or] are complementary to the nucleotide sequence of the target gene. —

In claim 22 the phrase -- are separate complementary strands that -- has been inserted in line 11 of the claim after the phrase "wherein the first and the second ribonucleotide sequences"

The following is an examiner's statement of reasons for allowance:

The amended claims are free of the prior art searched and of record.

### Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).

21

Page 4

Application/Control Number: 09/215,257

Art Unit: 1635

## Conclusion

Applicant is now required to submit a substitute declaration or oath to correct the deficiencies set forth in this communication. The substitute oath or declaration must be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability" (PTO-37). Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136. Failure to timely file the substitute declaration (or oath) will result in ABANDONMENT of the application. The transmittal letter accompanying the declaration (or oath) should indicate the following in the upper right hand corner: Issue Batch Number, date of the "Notice of Allowance" (PTOL-85), and application number.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Lacourciere whose telephone number is (703) 308-7523. The examiner can normally be reached on Monday-Friday 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached on (703) 308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 305-1935 for After Final communications.



Application/Control Number: 09/215,257

Art Unit: 1635

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Karen A. Lacourciere July 23, 2002

> ANDREW WANG PRIMARY EXAMINER

> > رگ